Qty:

5 Um:

Each

: TUBE ASSEMBLY

: D2003047

: N/A

: NA

: 1/10/2006

: B

: D2003 REV B

Tuesday, 12/20/2005 3:40:11 PM

User:

Kim Johnston

Process Sheet

Drawing Name

Part Number

Material Due Date

Drawing Number

Project Number

Drawing Revision

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 25335

Estimate Number

: 11551

P.O. Number

Prsht Rev.

First Issue

Previous Run

: PIA

This Issue

: 12/20/2005

: NC

: NIA : DIA

: SMALL /MED FAB

Written By Checked & Approved By

Comment

: Est. B 00.01.12

Re-format EC

S.O. No. : NA

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Open W/OType labels per PPP D2003-047

2.0

M304TR0500W035

304 RD Tube .500 x .035W



Comment: Qty.:

0.4865 f(s)/Unit Total:

2.4323 f(s)

304 RD Tube .500 x .035W

Material:1/2"Æ x 0.035" wall AISI 304 SS tubing

M18833 Qu

Batch: M 19196 (3)

3.0

BAND SAW

BAND SAW



Comment: BAND SAW

Cut as per template D2003-047 (5.56" long)

4.0

M26506

Firesleeve-crkl .375IDia





0.4867 f(s)/Unit

Total:

2.4334 f(s)

Comment: Qty.: Firesleeve-crkl .375lDia

Cut: 5.56" long as per Dwg

M2650-6 Heat sleeve

Batch: <u>M17</u>521

06-01-05

06-01-05

5.0

MS208198J

Comment: Qty.: Sleeve 2.1000 Each(s)/Unit Total:

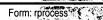
10.5000 Each(s)

Pick:

Qty Part Number

Description Batch

2 MS20819-8J Sleeve



Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES												
DATE	STEP		PROC	EDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
÷			}							:				
Part No	•		PAR #:	_ Fault Category:		NCR: Yes	No DQ	A: 🗲	Date: <u>C</u>	8/01/86				

					QA: N/	C Closed:	_ Date: _	
NCR:			WORK ORD	ER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B	Verification	Ammercal	Amproval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
				4				
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v								
			.]					

NOTE: Date & initial all entries

Date: Tuesday, 12/20/2005 3:40:11 PM Kim Johnston User: **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 25335 Part Number: D2003047 Job Number: Seq. #: Description: **Machine Or Operation:** Nut AN8188J 6.0 " Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Nut Pick: **Qty Part Number** Description Batch 2 AN818-8J 7.0 D2182045 Heat Shrink 4.5" Long Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s) Heat Shrink 4.5" Long Pick: Qty Part Number Description 06-01-05 D2182-045 Heat shrink 8.0 BRAKE NC Comment: NC BRAKE Form tube as per template D2003-047 9.0 QC5 INSPECT WORK TO CURRENT STEP. Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 10.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock 06/41/03 Location: 15 11.0 DOCUMENT CONTROL Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

Form: rprocess

Page 2

Dart Aeros	pac	e L'	td
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W/O:				WORK OF	DER CHANG	GES				
DATE	STEP		PR	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					4					
		- 8 as		·						
					=6					-
Part No	:		PAR #:	Fault Category:		NCR: Yes	s No DC	A:	Date:	
						QA:	N/C Close	ed:	Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)													
DATE		Description of NC		Corrective Action Section B	\\- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Ammassal								
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspecto							
		4		50											
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NOTE: Date & initial all entries





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DESIG	94)	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KF10	APPROVED	DRAWING NO. REV. B
4	15	1 44	D2003 SHEET 1 OF 2
DATE	,		TITLE SCALE
99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES MTS
Α		90.04.09	NEW ISSUE
8		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)



P/N	TEMPLATE	HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC.	MATERIAL ^{4/6/7}	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0:375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38				1.	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54				111	2	2	! TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00	1				2	2	TUBE ASS'Y	8061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10,62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25		100	2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	- 5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	- WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
02003-031	T2003-031	14.6	15.38	. 2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI:304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5,56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12,38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	- WW-T-700/6

WILL "

25335





DESIGN		OSPACE LTD ONTARIO, CANADA
CHECKED API	ARDVED ORAWING NO. D2003	REV. B SHEET 2 OF 2
DATE	TITLE	SCALE
99.06.08	206 CABIN HEATER	TUBE ASSEMBLIES NTS



Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

S/16 x . 20 GRUB
SCREW, INSTRUC
WITH COCTITE.

M3 ZOBI 9 - 6D SLEENE
ANBIS-6D NUT OHITTED
FOR CLARITY

DETRIL OF - 077

WITHOUT TO WITH 1011